

Notice of Allowability	Application No.	Applicant(s)
	09/780,895	JI ET AL.
	Examiner	Art Unit
	Chirag G Shah	2664
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to 10/04/2004.		
2. The allowed claim(s) is/are 6, 7, 9-12, and 14; renumbered 1-7.		A 19 Datal
3. The drawings filed on <u>09 February 2001</u> are accepted by the Examiner.		Ajir Patel Primary Exemines
 4.		
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT (sit of BIOLOGICAL MATERIAL FOR THE DEPOSIT OF BIOLOGIC	must be submitted. Note the CAL MATERIAL.
Attachment(s)		
 Notice of References Cited (PTO-892) Notice of Draftperson's Patent Drawing Review (PTO-948) 		Patent Application (PTO-152)
	Paper No./Mail Da	6. ⊠ Interview Summary (PTO-413), Paper No./Mail Date <u>11/22/04</u> .
 Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 	8), 7. X Examiner's Amend	Iment/Comment
4. Examiner's Comment Regarding Requirement for Deposit		nent of Reasons for Allowance
of Biological Material	9. 🗍 Other	

Application/Control Number: 09/780,895 Page 2

Art Unit: 2664

Examiner's Amendment

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mark J. Danielson on 11/22/04.

The application has been amended as follows:

In claim 14 (renumbered claim 7), line 14, before "stored", the second "that" has been removed.

In claim 14 (renumbered claim 7), line 22, after "specific", the word "that" has been changed to "than".

Examiner's Reasons for Allowance

2. The following is an examiner's statement of reasons for allowance:

Referring to claim 6 (renumbered claim 1), Prior Art fails to disclose the information storage portion of the at least one entry stores two sets of next hop and a prefix length information when the total number of ones in the bitmap of the at least one entry is two or more in combination with other limitations set forth in the respective claim.

Referring to claim 9 (renumbered claim 3), Prior Art fails to disclose when the total number of ones is not in the given set of values using the offset to index a bit in the bitmap of the indexed entry, determining a number of ones from the beginning of the bitmap to the indexed bit,

Art Unit: 2664

using the number of ones to the indexed bit to index an entry in a second lookup table, checking a marker bit of the entry in the second lookup table, if the marker bit is zero, obtaining next hop information and prefix length information for the IP address fro the remaining bits of the entry in the second lookup table, if the marker bit is one, using the remaining bits of the entry in the second lookup table to index to a block of entries in a second data structure, within the block of entries in the second data structure, using the offset to index to a particular entry in combination with other limitations set forth in the claim.

Referring to claim 14 (renumbered claim 7), Prior Art fails to disclose when the prefix length component is neither less than the first value nor greater than or equal to the second predetermined value, determining entries in the data structure matching the prefix length component, for each matching bit, determining whether the prefix length component is more specific than prefix length information associated with that bit and whether the next hop component is different from next hop information associated with that bit in combination with other limitations set forth in the respective claim.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chirag G Shah whose telephone number is 571-272-3144. The examiner can normally be reached on M-F 6:45 to 4:15, 2nd Friday off.

Application/Control Number: 09/780,895

Art Unit: 2664

supervisor, Wellington Chin can be reached on 571-272-3134. The fax phone number for the

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

November 22, 2004

Primary Examiner

Page 4